

What is claimed is:

- Sub A1* 1. A computer system for performing Internet based testing comprising:
a central processing site comprising a web server and a database for storing
examination content; and
at least one client computer in communication with the web server via the Internet
for beginning an examination session and retrieving and displaying the examination
content and; and
means of automatic communication between the web server and the client
computer to save the current state of the examination session at predefined intervals in
a unique file.
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2. The computer system of claim 1, wherein the unique file is stored on the web
server.
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- Sub A2* 3. The computer system of claim 2, wherein the means of communication includes
cookies transmitted between the web server and the client computer to save the current
state of the examination.
- 20 4. The computer system of claim 2, wherein the means of communication includes
at the client computer:
means to update cookies at the predefined intervals; and
means to transmit the updated cookies in a request to the web server.
- 25 5. The computer system of claim 4, wherein the means of communication includes
at the web server:
means to respond to the request transmitted by the client computer; and
means to store the transmitted cookies in the unique file.
- 30 6. The computer system of claim 3, the means of communication further comprising:
means to update the cookies during the examination session at the predefined
intervals; and
means to transmit a request to a web server, the request including the updated

cookies.

7. The computer system of claim 3, the means of communication further comprising:
means to receive a request from the client computer, the request including the
transmitted cookies;
- 5 means to return a response to the client computer; and
means to store the cookies in the unique file.
8. The computer system of claim 6, the means of communication further comprising:
means to receive the request from the client computer;
means to return a response to the client computer; and
means to store the cookie content in the unique file.
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9. A method of administering Internet based testing on a client computer,
examination content being stored on a web server, the method comprising the steps of:
logging in a candidate;
beginning an examination session;
retrieving and displaying the examination content from the web server; and
automatically saving the current state of the examination session at predefined
15 intervals in a unique file.
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10. The method of claim 9, wherein in the step of automatically saving the current
state of the examination session at predefined intervals in a unique file includes the step
of saving the unique file on the web server.
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11. The method of claim 10, wherein in the step of automatically saving the current
state of the examination session at predefined intervals in a unique file includes the step
of:
transmitting cookies between the web server and the client computer to save the
30 current state of the examination.
12. The method of claim 10, wherein in the step of automatically saving the current
state of the examination session at predefined intervals in a unique file includes the steps

of:

updating cookies at the predefined intervals; and
transmitting the updated cookies in a request to the web server.

5 13. The method of claim 12, wherein in the step of automatically saving the current state of the examination session at predefined intervals in a unique file further includes the steps of:

responding to the request transmitted by the client computer; and
storing the transmitted cookies in the unique file.

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14. The method of claim 11, wherein in the step of automatically saving the current state of the examination session at predefined intervals in a unique file further includes the steps of:

15 updating the cookies during the examination session at the predefined intervals;
and

transmitting a request to a web server, the request including the updated cookies.

20 15. The method of claim 11, wherein in the step of automatically saving the current state of the examination session at predefined intervals in a unique file further includes the steps of:

25 receiving a request from the client computer, the request including the transmitted cookies;

returning a response to the client computer; and
storing the cookies in the unique file.

30 16. The method of claim 14, wherein in the step of automatically saving the current state of the examination session at predefined intervals in a unique file further includes the steps of:

receiving the request from the client computer;
returning a response to the client computer; and
storing the cookie content in the unique file.

17. A user interface invocable by an application program for administering a

computer based exam comprising:

a right frame for displaying at least one question;

a left frame comprising:

a listing of question numbers;

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a user activable button for a calculator; and

a user activable button for a clock, the clock being adapted to either display real time, examination time elapsed or examination time remaining.

10 18. Computer executable software code stored on a computer readable medium, the code for administering a computer based examination having examination content, the code comprising:

code to receive a candidate specific user name and PIN;

code to begin the examination;

15 code to generate and transmit the examination content from a remote site;
code to update cookie content during the examination at a predefined interval; and
code to transmit a request to a web server, the request including the updated cookie content.

20 19. Computer executable software code stored on a computer readable medium, the code for administering a computer based examination having examination content, the code comprising:

code to generate the examination content;

code to receive a request from a client computer during the examination, the request including cookie content;

25 code to return a response to the client computer indicating the currently displayed content should not be changed; and

code to store the cookie content in a unique cookie jar file.

30 20. A programmed computer for administering a computer based examination having examination content, the programmed computer comprising:

a memory having at least one region for storing computer executable program code; and

a processor for executing the program code stored in the memory, the code comprising:

code to receive a candidate specific user name and PIN;

code to begin the examination;

5 code to update cookie content during the examination at a predefined interval; and
code to transmit a request to a web server, the request including the updated
cookie content.

21. A programmed computer for administering a computer based examination having
10 examination content, the programmed computer comprising:

a memory having at least one region for storing computer executable program
code; and a processor for executing the program code stored in the memory, the code
comprising:

code to generate the examination content;

15 code to receive a request from a client computer during an examination, the
request including cookie content;

code to return a response to the client computer indicating the currently displayed
content should not be changed; and

code to store the cookie content in a unique cookie jar file.

20 22. A computer readable medium having computer executable software code stored
thereon, the code for administering a computer based examination having examination
content comprising:

code to receive a candidate specific user name and PIN;

25 code to begin the examination;
code to retrieve and display the examination content from a remote site;
code to update cookie content during an examination at a predefined interval; and
code to transmit a request to a web server, the request including the updated
cookie content.

30 23. A computer readable medium having computer executable software code stored
thereon, the code for administering a computer based examination having examination
content comprising:

code to generate the examination content;
code to receive a request from a client computer, the request including cookie
content;
code to return a response to the client computer indicating the currently displayed
5 content should not be changed; and
code to store the cookie content in a unique cookie jar file.

24. A computer system for performing Internet based testing comprising:
a central processing site comprising a web server and a database for storing
10 examination content; and
at least one client computer in communication with the web server via the Internet
for retrieving and displaying the examination content and beginning an examination
session; and
security means substantially as described in the detailed description.

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Sub A3) 25. An adaptive testing method substantially as described in the detailed description.

ADD A4)

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